SharePoint 2013 Developer, Part 06 of 15: Controls and Web Parts

Meet the expert: Tim McCarthy is a senior solutions architect with Perficient who designs and builds highly scalable, layered web, desktop, and mobile applications utilizing the latest Microsoft platforms and technologies.

Prerequisites: This course assumes that students have some Web development background and some experience using Visual Studio 2012.

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Course description: Just as lists are the core data structure of SharePoint, user controls and web parts are the core UI elements of SharePoint. Here you will understand what their role is in the SharePoint UI. You will also understand how to build and deploy web parts that take advantage of the SharePoint's rich personalization framework that allow users to customize them in the browser. After this course, you will learn new techniques for developing user controls and customized web parts in Visual Studio 2012.

Course outline:

Controls
- Introduction
- Controls
- User Controls
- User Controls in SharePoint Root
- Demo: User Control
- Demo: Button
- Demo: Registering a Control
- Demo: Search Control
- Web Controls
- Web Controls in SharePoint
- Web Parts
- Web Parts in SharePoint
- Delegate Controls
- Delegate Controls in oslo.master
- Demo: Delegate Control
- Demo: Adding a Feature
- Demo: Feature
- Summary

Web Part Fundamentals
- Introduction
- Web Part Fundamentals
- Legacy Scenarios
- Chrome
- Web Part Life Cycle
- CreateChildControls
- RenderContents
- Demo: List Web Part
- Demo: Web Part Control
- Demo: Web Part Layout
- Summary

Customization
- Introduction
- Customization and Personalization
- Exposing Properties
- Demo: Customization
- Demo: Lists
- OnPreRender
- OnPreRender Uses
- Demo: OnPreRender
- Demo: Troubleshooting
- Demo: Toggling
- Demo: Debugging
- Summary

Editor Parts
- Introduction
- Editor Parts
- Demo: Editor Part
- Demo: Creating an Interface
- Demo: Override CreateEditorParts
- Demo: Debugging Editor Parts
- Demo: Edit with Editor Parts
- Summary

Deploying Web Parts
- Introduction
- Deploying Web Parts
- *.webpart Example
- Deploying to the Catalog
- Enabling Export
- Demo: Exporting
- Demo: Restoring
- Summary

Visual Web Parts
- Introduction
- Visual Web Parts
- Demo: Visual Web Part
- Demo: Adding a Visual Web Part
- Summary